EWT (L1) L 08210-67 SUURCE CODE: UR/0317/66/000/003/0046/0048 ACC NR: AP6011740 (A)AUTHOR: Grudinin, I. (Engineer; Major) ORG: None TITLE: Adsorbents and their regeneration SOURCE: Tekhnika i vooruzheniye, no. 3, 1966, 46-48 TOPIC TAGS: adsorption, dehydration, silica gol, aluminum oxide, zeolite, drier ABSTRACT: A description of two atmospheric dryers used for dehydration of silica gel, aluminum oxide and various zeolites is presented. These three materials are usually employed for dohumidifying the air in military warehouses. The absorbed moistures is removed from silica gel materials at a temperature of about 150 C during 4 to 6 hours. While aluminum-oxide adsorbents are dehumidified in 3 to 5 hours at temperatures of about 260 C in drip-pans and of temperatures around 400 C in closed containers. The atmospheric dryers of two different compartment types are used. Both are composed of a heat-insulated casing, heating elements, weight-recording instruments, heat exchanger, etc. The essential difference between the two types is in the mode of placing and drying materials. The first type is equipped with a frame carrying eight horizontal drip-pans with materials. Preheated gas passing through various frame sections, heats the pans and dries the materials. In the second type, the materials are kept in their adsorbing cylinder which 1/2 Card

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cylinder. The electrical cir	inside the dryer. A dry compressed air flow is forced directly of design features of both dryers are shown in two sectional views rewit used for weight recorder and temperature stabilizer is shown in the section of t	s. The
SUB CODE: 11,	, 13/ SUEM DATE: None	
ard 2/2 dds		

ACC NR: AN6021925 SOURCE CODE: UR/9008/66/000/167/0002/0003

AUTHOR: Grudinin, I., (Colonel, Professor, Doctor of Philosophy)

ORG: none

TITLE: On the essence of war (Merits and shortcomings of a lecture)

SOURCE: Krasnaya zvezda, 21 Jul 66, p. 2, col. 1-7 and p. 3, col. 1-4

TOPIC TAGS: Marxism Leninism, communist military science, nuclear warfare, communism, war philosophy

ABSTRACT: The author reviews in detail a lecture by Lieutenant Colonel Ye. I. Rybkin, entitled "Nuclear war and political activity," distributed by the Central House of the Soviet Army im. M. V. Frunze as a handbook for propagandists. He praises the lecturer for criticizing those Soviet authors who write that there would be no victors in the event of a nuclear war. But he also criticizes the lecturer because his main theme is the possibility of a change having taken place in the

Card 1/2

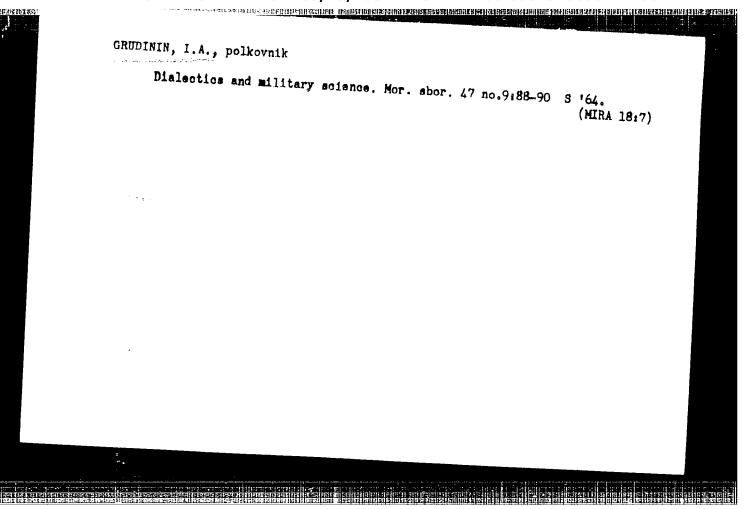
ACC NR: AN6021925

notion of war, and the possible emergence of a new element in the classical communist definition of war, namely the "continuation of political activity." He stresses that war is indeed, the continuation of political activity, but through notable changes have occurred in basic notion of warfare as a result of nuclear arms. He stresses that the essence of war is class struggle and the close relationship between war and economies. Only the form and expression may change, Marxist-Leninist-doctrines.

[GC]

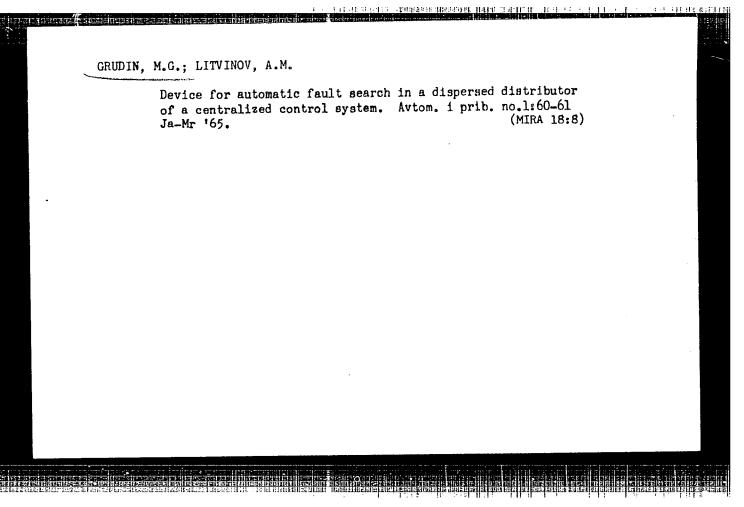
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L 51318-65 EWP(c)/EWP(k)/EWP(h)/EWT(d)/T/EWA(d)/EWP(v)/EWP(L) Pf-4		
ACCESSION NR: AP5009041 S/0302/65/000/001/0060/0061 621.311.172	2	
AUTHOR: Grudin, M. G.; Litvinov, A. M.	d= / .d"\	
TITLE: Automatic finder of faults in the distributor of a centralized monitor system	ring	
SOURCE: Avtomatika i priborostroyeniye, no. 1, 1965, 60-61. TOPIC TAGS: fault finder, automatic fault finder, monitoring system		
ABSTRACT: The development of an automatic device for quick fault finding relay-type local distributor is briefly reported; the distributor serves for successively connecting a number of sensors to the machine. The fault finder		
generates a cycle of pulses which are intended to operate ne distributor in a definite sequence. A central distributor, whose operation is synchronous an cophasal with the one being tested, records and indicates the fault. "A. N.		
Koval', V. A. Filipenko, and V. G. Shostak took part in building the device.	42	
Orig. art. has: 2 figures.		
Card 1/2		

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L 51318-65				
ACCESSION NR: AP500904				
ASSOCIATION: Institut avt	omatiki Goskomiteta po	oriborostroyeniy Measuring Instru	i Gosplana ments,	
Gosplan SSSR)				
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BARKHAD, B., kand.med.nauk, dotsent [Barhad, B.]; PILAT, L.; BERDAN, K.;
PREDA, N.; MIKHEILE, I. [Mihaila, I.]; LILLIS, R.; KLIAS, R.;
GARTHER, A. [Hartner, A.]; GREDINE, K. [Grudina, K.]; VATDA, I.;
IONNSKU, K. [Ionescu, K.]

Working conditions and health of salt mine workers. Gig. i san.
24 no.12:24-30 D '59. (MIRA 13:4)

1. Iz Instituta gigiyeny i obshchestvennogo zdorov'ya Rumynskoy
Narodnoy Respubliki, Bukharest.

(MINING)

GRUDININ, A.A.; IVAKIN, V.A.

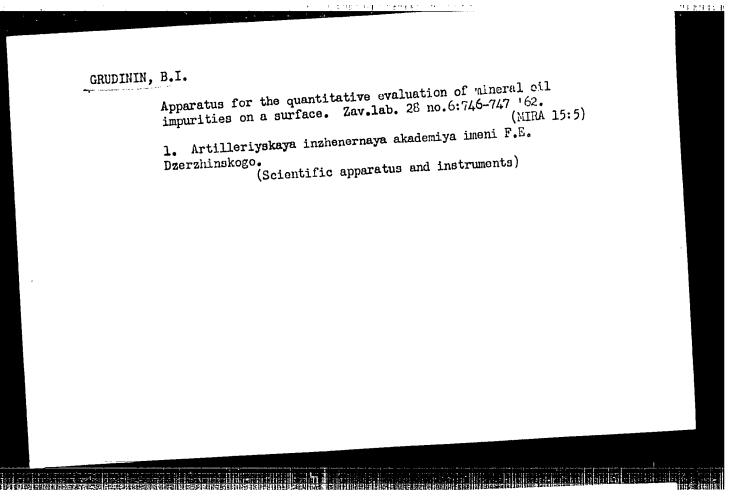
Apparatus for determining the coal content in raw meal. TSement 29 no.6:19-20 N-D *63. (MIRA 17:3)

1. TSementnyy zavod "Pobeda Oktyabrya", Novorossiysk.

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IVAKIN, V.A., inzh.; GEELIKIK, A.A., inzh.

Unit for loading packaged cement in cars. TSement 30 no.3;
20 My-Je *64. (MIRA 17:11)

1. TSementnyy zavod "Pobeda Oktyabrya".
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GMIDININ, Iven Aleksendrovich, polkovnik, kend.filos.neuk; KHRUSTOV.

F.D., polkovnik, kend.filosof.neuk, red.; ROMAHOV, I.W.,

podpolkovnik, red.izd-va

[Dielectical questions in military science]/ Voprosy dialektiki

v voennom dele. Moskva, Voen.izd-vo W-va obor.SSSR, 1960.

(MIRA 13:11)

214 p.

(Military art and science) (Dielectical materialism)

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s/007/61/000/002/002/004 B107/B217

AUTHORS:

Grudinin, M. I., Kuznetsova, A. I.

TITLE:

Distribution of nickel, chromium, and cobalt in the gabbroperidotite rocks of the basin of the Tyi river (northern

Pribaykal'ye)

PERIODICAL:

Geokhimiya, no. 2, 1961, 162-168

TEXT: The rocks of the Nyurundukanskiy and Davyrenskiy massif were studied. The most important rocks are: dunite, consisting mainly of olivine poor in iron (0 - 7% fayalite) and of smaller quantities of enstatite or diopside, spinel, magnetite, chlorite, talcum, and serpentine; saxonite, consisting of forsterite (70 - 80%), enstatite (20 - 25%), green spinel and magnetite (2 - 3%); <u>lherzolite</u>, consisting of 60% olivine (up to 15% Fa), 15 - 20% diopside (15% CaFeSi₂0₆), 5 - 7% enstatite (5% FeSio₃), and approximately 1% light-green spinel and ore. Verlite, consisting of iron-magnesium-olivine, diopside and inconsiderable quantities of isometrical bytownite grains.

Peridotites with vein-like plagioclase separations have a kelyphite structure

Card=1/9

s/007/61/000/002/002/004 B107/B217

Distribution of ...

and a complicated mineralogical composition: besides olivine there are diopside, enstatite, plagioclase, spinel, ore, and minerals which developed on plagioclase, zoisite, epidote, albite. Small flakes of biotite (lepidomelane) occur in the ultrabasites of the Davyrenskiy massif, spinel is lacking. The massif is much more differentiated until the occurrence of quartz diorites. Magnetite and chromium magnetite (a = 8.37 ±0.01 A) occur in the ore veins. Moreover, sulfide mineralization with pyrrhotite and small quantities of chalcopyrite, pyrite, pentlandite, and sphalerite is found. The analysts N. G. Taskina and L. V. Komarova carried out complete silicate analyses of the most important rocks at the authors' institute (Table 1). A. I. Kuznetsova analyzed a series of samples quantitatively for Ni, Co, and Cr in the spectral laboratory of the Institute; accuracy is +8 - 10%. Moreover, Sc, Sr, V, Pb, Zr, and W were found, the content in the Nyurundukanskiy massif reaches hundredth % of Sc and tenth % of V. The mean values for the individual rocks of both massifs were calculated from the determinations of Ni, Co, and Cr (Table 2). The connection between nickel and magnesium content is illustrated in Fig. 1 (Nyurundukanskiy massif) and Fig. 2 (Davyrenskiy massif); the nickel content in the latter rises in proportion to the magnesium content up to 30% MgO and remains then

card 2/9

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Distribution of ...

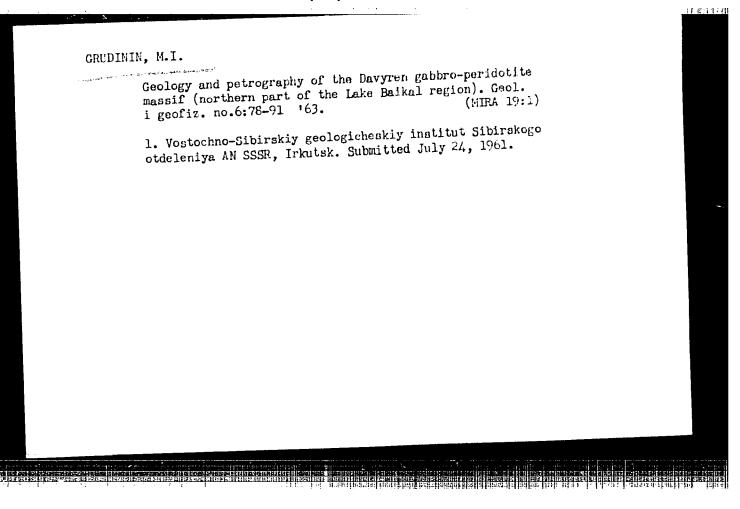
S/007/61/000/002/002/004 B107/B217

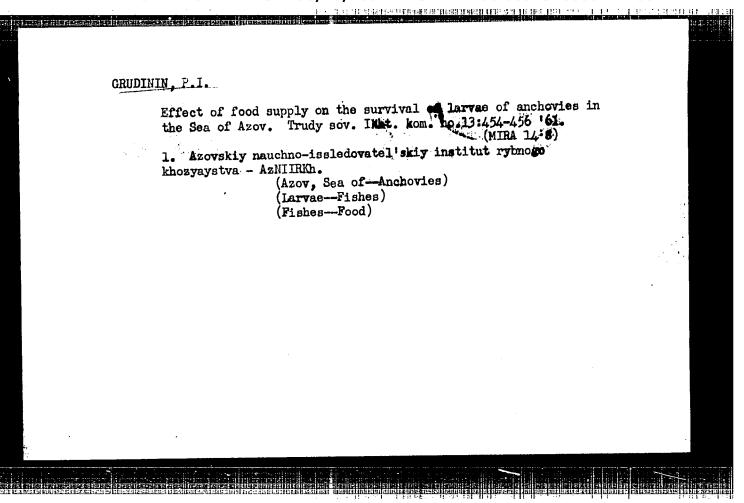
constant. This is connected with the formation of sulfides, into which nickel enters preferably. Furthermore, Ni, Cr, and Co were determined in olivines, orthorhombic and monoclinic pyroxenes, and in the magnetic fractions (Table 3). No massif shows considerable chromium enrichment; the high content in clivine is due to the mechanical addition of ore. The change of the chromium content with the MgO content in the Nyurundukanskiy massif is parallel to nickel; in the Davyrenskiy massif, the chromium content continues rising also over 30% MgO. The cobalt content rises only inconsiderably. The Nyurundukanskiy massif has less cobalt but more chromium and nickel than the Davyrenskiy massif. The ratio Cr>Ni>Co in the dunites indicates that the latter formed earlier than the basic rocks. This fact was pointed out by V. V. Lyakhovich. There are 2 figures, 3 tables, and 4

ASSOCIATION: Vostochno-Sibirskiy geologicheskiy institut SO AN SSSR (East Siberian Geological Institute of the Siberian Branch of the AS USSR)

SUBMITTED: April 25, 1960

Card 3/9





GRUDININ, V., rabochiy ochistnogo zaboya; KAVALENKO, P. (g.Bokovoantratsit, Lugambkaya obl.); GINZBURG, M., rabochiy ochistnogo zaboya

Readers' letters. Sov.shakht. 11 no.11:36 N '62. (MIRA 15:11)

1. Shakhta "Ob"yedinennaya", Chita (for Grudinin). 2. Shakhta "Kochegarka", g. Gorlovka, Donetskaya obl. (for Ginzburg).

(Coal mines and mining)

GRUDININ, V.P., inzh.

Using metal sliding formwork in shaft sinking. Shakht.
stroi. 5 no.7:22 Jl '61. (MRW 15:6)

1. Bryanskoye snakhtostroyupravleniyo trosta Kadiyevugol'.
(Shaft sinking)
(Concrete construction—Formwork)

GRUDININ, V.F		ton in unstab	ole aquequa al	luvial
Go so	Construction of the shaft top in unstable aqueous alluvial soils. Shakht.stroi. 6 no.9:26 S '62. (MIRA 15:9)			(MIRA 15:9)
1,	Trest Kadiyevugol'.	(Shaft si	inking)	

GRUDININA, M. M., Card of Chem Sci — (diss) "The Influence of Colloidal Substances and Components of Water Emulsion of Sterols on the Process of Polymerization," Moscow, 1959, 12 pp (Moscow Chemico-Engineering Institute im D. I. Mendeleyev) (KL, 4-60, 135)

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617110017-7 主任日本時期等自身的影響等無限的時間自身等更多用的工具的。

sov/156-59-2-35/48 5(3), 15(8) Grudinina, M. M., Aleksandrova, Ye.M. AUTHORS: The Influence of Some Factors on the Formation of Fine-grained Polystyrene (Vliyaniye nekotorykh faktorov na obrazovaniye TITLE: mikroblochnogo polistirola)

Nauchnyye doklady vysshey shkoly. Khimiya i khimicheskaya tekhnologiya, 1959, Nr 2, pp 354-357 (USSR) PERIODICAL:

The fine-grained polystyrene formed during the polymerisation depreciates the product to waste. The authors investigated a ABSTRACT: large number of materials, partly inhibitors of the threedimensional polymerisation, partly emulsifiers, concerning their capacity to suppress the formation of the fine-grained structure. The results are as follows : The contents of up to 1% of divinylbenzene in the emulsion is not the reason for the formation of the fine-grained structure. A dilution of the styrene-water-emulsion reduces the portion of fine-grained structure, especially when adding sodiumcleate as emulsifier (Fig 1). Of the cleates which were analysed (sodium-, ammonium., potassium.), potassium oleate is the most effective (Fig 2). Increased addition of the emulsifier reduces the formation of fine-grained polystyrene and changes all qualities Card 1/2

The Influence of Some Factors on the Formation of Fine-grained Polystyrene

SOV/156-59-2-35/48

of the latex. The addition of electrolytes destroys the stability of the emulsion and encourages thereby the formation of the fine-grained structure (Fig 3). There are 3 figures and 5 references, 4 of which are Soviet.

PRESENTED BY:

Kafedra kolloidnoy khimii Moskovskogo khimiko-tekhnologicheskogo instituta im. D. I. Mendeleyeva (Chair for Colloid Chemistry Moscow Institute for Chemical Technology imeni D. I. Mendeleyev)

SUBMITTED:

July 8, 1958

Card 2/2

5.3831 0903± AUTHORS:

Grudinina, M. M., Aleksandrove, Ye. M. \$/153/60/003/01/048/058 8011/8005

TITLE: Some Problems of Emulsion Polymerization of Styrene by the Method of Tagged Atoms

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1960, Vol 3, Nr 1, pp 176-178 (USSR)

TEXT: The authors assume that the distribution of the emulsifier causes the formation of microblock polymers. A microblock polymer which contains only 1/3 - 1/4 of the emulsifier quantity is formed by drop polymerization of the monomer. The distribution of the emulsifier during emulsion polymerization is complicated. At the initial stages, styrene is emulsified in water; a sorption of the emulsifier on the surface of the disperse monomer drops is also possible; finally, a coupled dissolution of the hydrocarbon in the soap micelles (Ref 4) occurs. The mode of redistribution of the emulsifier during the production of polymeric particles is unknown. Polymerization styrene in the emulsion may be assumed to consist of 3 stages: 1) Styrene-water emulsion; the emulsifier is absorbed on the surface of hydrocarbon drops; 2) heating of the emulsion, desorption of the emulsifier, disintegration of the emulsion into layers, increase in the amount of "non-emulsified" monomer; the micellar soap passes over into the adsorption layers of the polymeric particles; 3) at the end of polymerization, the system consists of solid polymer, water, and free monomer. To clarify the influence of emulsifier desorption on the

Some Problems of Emulsion Polymerization of Styrene by the Method of Tagged Atoms

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weight of microblocks, the authors investigated the quantitative distribution of the emulsifier among the phases of the system by a tagged emulsifier. Tagged sodium cleate was produced from cleic acid with C¹⁴ in the carboxylic group. In aqueous solution, the cleate retains its ability of forming micelles, and possesses surface activity. Some experiments were carried out with C14 nondecanic acid sodium. The activity of all samples was measured by a radiometer of type B-2 (end window counter of type T-25-BFL). The relative activities of the microblock-polystyrene- and polymer-coagulate samples were compared by the authors' methods. The absolute molar activity was computed by the formula of V. G. Vasil'yev (Ref 6). For this purpose, all samples were burnt in a "wet" state, and transformed into barium carbonate. The polymer-coagulate samples showed the highest activity. Table 1 shows the results. Hence, it appears that the sorption of the emulsifier is inversely proportional to the dilution modulus of the initial emulsion. The weight of the microblock polymer increases with the prolongation of the coupled dissolution of styrene in the aqueous emulsifier solution. The activity of the microblock polymer is higher than that of the polymer coagulate (Table 2). In all experiments, the intermicellar liquid showed the lowest activity (Table 3). The authors arrive at the conclusion that in emulsion polymerization the solubilization of the hydrocarbon in the scap micelles must not exceed a certain optimum limit. To protect the styrene microvolumes from coalescence, the strength of the absorption layers of

Card 2/3

Some Problems of Emulsion Polymerization of Styrene by the Method of Tagged Atoms

69681 S/153/60/003/01/048/058 B011/B005

potassium-, sodium-, or ammonium oleate is insufficient. There are 3 tables and 7 references, 6 of which are Soviet.

ASSOCIATION:

III PAR

Moskovskiy khimiko-tekhnologicheskiy institut im. D. I. Mendeleyeva; Kafedra kolloidnoy khimii

(Moscow Institute of Chemical Technology imeni D. I. Mendeleyev; Chair of Colloid Chemistry)

SUBMITTED:

April 10, 1959

Card 3/3

GRUDININA, M.M.; ALEKSANDROVA Ye.M.

Importance of solubilization and phase conversion in the emulsion polymerization of styrene, Plast.massy no.5:11-14 '61.

(Styrene)

(MIRA 14:4)

326hh \$/076/62/036/001/017/017 B119/B101

5.3830 2209

AUTHOR:

Grudinina, M. M.

TITLE:

Effect of the oil- and water-solubility of peroxide initiators

on the conditions of microblock polystyrene formation

PERIODICAL: Zhurnal fizicheskoy khimii, v. 36, no. 1, 1962, 235 - 234

TEXT: The author investigated the effect of various peroxide initiators during polymerization of styrene in an emulsion upon the formation of coarser polystyrene microblocks undesirable in practice. Styrene, emulsifiers (sodium oleate, potassium oleate, polyvinyl alcohol, gelatin). the cation-active substance equalizer $\langle A \rangle$ ("A"), as well as the initiators the cation-active substance equalizer acid dinitrile ("porofor") $(A \otimes B)$ ("A"), benzoyl peroxide, azoisobutyric acid dinitrile ("porofor") were used as initial materials. The ratio of styrene: water mixture was 1:2, the emulsifier content was 1 - 5%, and the content of initiator was 1:4 (both related to the addition of styrene). After adding styrene to 1% (both related to the addition of styrene). After adding styrene to 15 - 20 min, then the initiator added and the mixture kept at 95 - 96°C (15 min). After cooling, the finished latex was filtered through gauze, Card 1/2

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and the amount of polystyrene microblocks in the residue was weighed. The very brittle microblocks melt at $130-140^{\circ}$ C, and are readily soluble in benzene and toluene. The experiments have shown that the formation of microblocks depends on the types of emulsifier and initiator. With the use of the same emulsifier, oil-soluble initiators (benzoyl peroxide, azolso-butyric acid dinitrile) increase the yield of microblocks (30 - 80%). Insignificant quantities of microblocks are obtained when using the highly active K₂S₂O₈, which is readily soluble in water, while the yield amounts up to 13% in the presence of ${\rm H_2O_2}$. The cation-active substance "A" furthers microblock formation. There are 6 Soviet references.

ASSOCIATION: Moskovskiy institut inchenemov transporta (Moscow Institute of Transportation Engineers)

SUBMITTED: July 6, 1961

Card 2/2

Destricted, T.A., kerrement, meak, GRODININA, S.M.; YERMKLOVA fe.K.

Three years work experience in a consolidated serological laboratory. Veet.derm. i ven. no.9:71-73*62. (MRA 16:7)

1. Is mechrayonney serologicneskey laboratorii pri kozhnovenerologicheskem dispansere no.3 Leningrada. (IENINSKAD-SEROLOGY)

reserve jugi kaslu izi kasinali nasu ila Zinga alipa du alipa essarika ALEKSANDROV, S.V., kand.sel'skokhoz.nsuk; BOGUSHEVSKIY, A.A., kand.tekhn. nauk; VASHCHENKO, S.F., kond.sel skokhoz.nauk; GERASIMOV, B.A., kund.sel'skokhoz.nauk; OROMOV, H.G. [deceased]; KORBUT, V.A.; KUDREVICH, I.A.: MAMAYEV, M.G., kand.tekhn.nauk; NOVIKOV, A.P.; OSNITSKAYA, Ye.A.; SIMAHOVSKIY, A.Yu.; SLEPTSOV, S.A.; SPIRIDONOVA. A.I.; TARAKANOV, G.I., kand.sel'skokhoz.nauk; CHENYKAYEVA. Ye.A.; KITAYEV, S.I., red.; FILATOV, N.A., zasluzhennyy agronom RSFSR; CRUDINKINA, A.P., red.; MARTYNOV, P.V., red.; ARTSYBASHEVA, A.P., tekhn.red.; BARBASH, F.L., tekhn.red. [Vegetable growing under cover] Oveshchevedstve zashchishchennege grunta. Moskva, Izd-vo M-va sel'.khoz.SSSR, 1960. 279 p. (MIRA 13:12) (Vegetable gardening) (Greenhouses) (Hotbeds)

IVANOV, A.A. Prinimali uchastiye SOKOLOV, D.S.; VASIL'YEV, N.A.;
IOFFE, N.S.; KRASNOV, V.S., nauchnyy red.; GRUDINKINA, A.P.,
red.; STREL'TSOVA, N.P., red.; ARTSYBASHEVA, A.P., tekhn.
red.; KANTOROVICH, A.P., tekhn. red.

[Mechanization of work in animal husbandry] Mekhanizatsiia rabot v zhivotnovodstve. Moskva, Sel'khozizdat, 1962. 92 p. (MIRA 16:5)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystwennykh nauk imemi V.I.Lenina (for Krasnov).

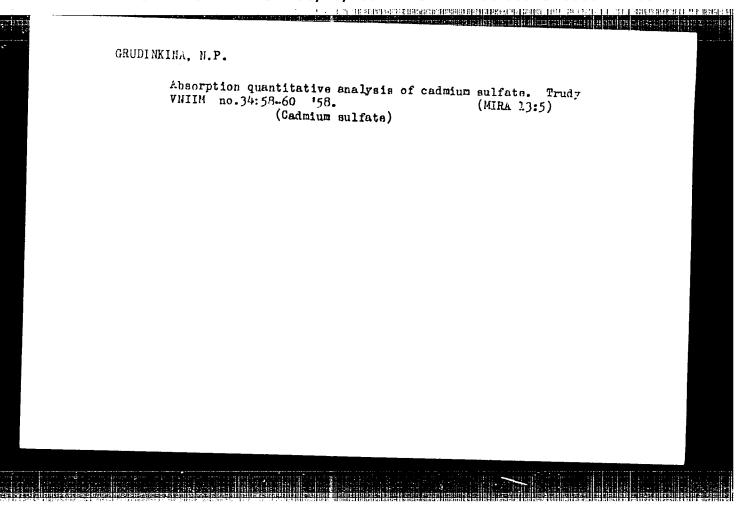
(Stock and stockbreeding-Equipment and supplies)

GRUDINKINA, K.K.

Alushta Station. Zashuh. rast. ot vred. i bol. 7 no.10:39-40
0 '62.

1. Zaveduyushchaya Alushtinskim punktom sigualizatsii i progmosov.

(Alushta District—Plants, Protection of)



BRECMAN, K. Ya.; GRUDINKINA, N.P.

Obtaining and testing high-purity zinc, Izm.tekh. no.5:23-24 "y '61.

(MIRA 14:5)

(Zinc-Electrometallurgy)

GRUDINKINA, N.P.

Determination of the isotopic composition of silver with an MI-1305 -type mass spectrometer. Trudy inst. Kom. stand., mer i izm. prib. no.68:117-119 '63. (MIRA 17:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii im. D.I. Mendeleyeva.

CRUDINKINA, N. P.

GRUDINKINA, N. P. "Determination of the Purity of Water using Ultra-Violet Spectrophotometry." Commission on Standards, Measures, and Measuring Instruments, Council of Ministers USSR. All-Union Sci Res Inst of Metrology imeni D. I. Mendeleyev. Leningrad, 1956. (Dissertation for the Degree of Candidate in Sciences)

Technical

So: Knizhaya Letopis', No. 17, 1956

USSR/Optics - Optical Methods of Analysis. Instruments.

K-7

Abs Jour

: Referat Zhur - Fizika, No 5, 1957, 13109

Author

Grudinkina, N.P.

Inst Title

Absorption of Ultraviolet Radiation by Water.

Orig Pub

: Optika i spektroskopiya, 1956, 1, No 5, 658-662

Abstract

: A photoelectric method was used to determine the values of the index of absorption of water of various degrees of purity in the ultraviolet portion of the spectrum. The absorption index after the fourth and successive distillations does not change, and therefore the third-distillation water was called the "water of maximum purity". It has no absorption bands in the ultraviolet regions up to 230 millimicrons, while the general attenuation of the beam is explained by molecular scattering. The absorption bands of water of first and second distillations indicate the presence of salts of iron, silicon, calcium oxide,

Card 1/2

USSR/Optics - Optical Methods of Analysis. Instruments.

K-7

Abs Jour

No 5, 1957, 13100 APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617110017-7

magnesium, and copper and a certain amount of organic compounds. A new method is proposed for determining the purity of water with the aid of ultraviolet spectrophotome-

Card 2/2

PRIKHOT'KO, AF 24(7)

þ 3 PHASE I BOOK

GRUDINOVKER, L. G.

"Som: Peculiarities in the Electromechanical Treatment of Fruits and Vegetables." Cand Tech Sci, Moscow Technological Inst of Food Industry, Min of Higher Education USSR, Odessa, 1954. (KL, No 8, Feb 55)

SO: Sum. No. 631, 26 Aug 55-Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (14)

USSR / Radiophysics

Ι

Abs Jour

: Ref Zhur - Fizika, No 4, 1957, No 10010

Author

: Grudinskaya, G.

Inst

Title

: Not given : Experience in Regular Communicat on at Meter Waves

Orig Pub

: Radio, 1956, No 10, 33

Abstract

: Brief summary of the article by Bailey et al. (Referat

Zhurnal - Fizika 1956, No 17442).

Card : 1/1

> CIA-RDP86-00513R000617110017-7" APPROVED FOR RELEASE: 08/10/2001

PHASE I BOOK EXPLOITATION

379

Grudinskaya, Galina Petrovna

KITEN THE SERVICE TO SERVE OF

Rasprostraneniye ul'trakorotkikh radiovoln (Microwave Propagation) Moscow, Gosenergoizdat, 1957. 62 p. (Massovaya radiobiblioteka, vyp. 281) 30,000 copies printed.

Ed.: Chechik, P.O.; Tech. Ed.: Larionov, G. Ye.; Editorial Board of series: Berg, A.I., Dzhigit, I.S., Kulikovskiy, A.A., Smirnov, A.D., Tarasov, F.I., Chechik, P.O., and Shamshur, V.I.

PURPOSE: The monograph is addressed mainly to qualified radio amateurs working with microwaves.

COVERAGE: The book is concerned with the fundamental problems of microwave propagation, and acquaints the reader with the latest results of experimental research in the field. Specific cases of microwave reception over long distances are cited, together with some recommendations for duplicating these results. The booklet offers methods for calculating the field intensity in the simplest cases of microwave propagation. At present the

Card 1/4

Microwave Propagation 379 following microwave bands have been allotted to radio amateurs in the Soviet Union: 38 to 40 and 144 to 146 Mc in the one meter band, 420 to 425 Mc and 1,470 to 1,520 Mc in the decimeter band, and 5,650 to 5,850 Mc in the centimeter band. The Soviet scientists Vvedenskiy, B.A. (pp. 4,20), Arenberg, A.G., and Fok, V.A. are mentioned as having made valuable contributions in the field of radiowave propagation in recent years (pp. 4,33). The Moscow Power Engineering Institute is designated as the organization to which all data on observations made by radio amateurs of microwave behavior should be submitted for comparison with the results obtained by other amateurs. There is a bibliography of eight Soviet sources, all in Russian. TABLE OF CONTENTS: Introduction Ch. I. Basic Concepts of Radio Wave Propagation 3 б The Structure and Electric Properties of the Atmosphere and the Earth's Surface 11 The surface of the earth 11 Card 2/4

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Scattering of radio waves on the irregularities of tropospheric layers	42
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GRUDINSKAYA, G.P., kandidat tekhnicheskikh nauk.

Ultrashort wave radio communication system using radio waves reflected from meteor traces. Vest. sviazi 17 no.3:6-7 Mr '57.

(Radie, Shortwave)

(RIJA 10:4)

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PHASE I BOOK EXPLOITATION SOV/5549

Grudinskaya, Galina Petrovna

Rasprostraneniye ul'trakorotkikh radiovoln (Propagation of VHF and Microwaves) 2d ed., rev. Moscow, Gosenergoizdat, 1960. 103 p. (Series: Massovaya radiobiblioteka, vyp. 382) 50,000 copies printed.

Editorial Board: A. I. Berg, F. I. Burdeynyy, V. A. Burlyand, V. I. Vaneyev, Ye. N. Genishta, I. S. Dzhigit, A. M. Kanayeva, E. T. Krenkel', A. A. Kulikovskiy, A. D. Smirnov, F. I. Tarasov, and V. I. Shamshur; Ed.: A. Kh. Yakobson, Tech. Ed.: N. I. Borunov.

PURPOSE: This book is intended for experienced radio amateurs.

COVERAGE: This book contains information on radio waves, antennas, and the electrical properties of the earth and its atmosphere. Special features of the propagation of radio waves of various ranges, with emphasis on the wave range from 10m down, are discussed. No personalities are mentioned. There are 6 references, all Soviet.

Card-1/4

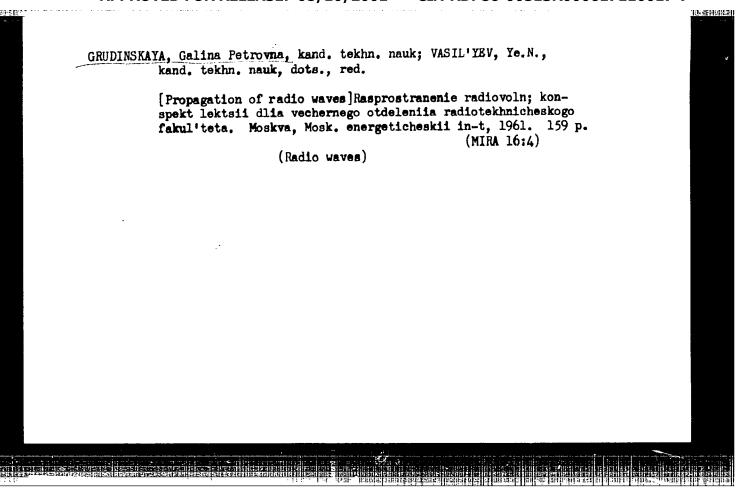
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DOLUKHANOV, Mark Pavlovich; GRUDINSKAYA, C.P., retsenzent; VASIL'YEV,
Ye,N., retsenzent; BARTENEV, G.M., retsenzent; VORONOVA, A.I.,
red.; KARABILOVA, S.F., tekhn.red.

[Propagation of radio waves] Rasprostranenie radiovoln. Izd.2.
Moskva, Gos.izd-vo lit-ry po voprosam sviazi i radio. 1960.

390 p. (Radio waves)

(MIRA 14:2)



MAKOV, K.I., prof. Prinimala uchastiye (RUDINSKAYA, I.T., gidrogeolog. B.I., otv.red.; SEMIKHATOV, A.N., prof., red.; PRILUTSKIY, G.L., tekhn.red.

[Rydrogeology of the U.S.S.R.; the Urale] Gidrogeologiia SSSR; Ural. Moskva, Izd-vo Akad.nauk USSR. Book 2. [Underground waters of the Bashkir A.S.S.R.] Podsemnye vody Bashkirskoi ASSR. Red.A.N.Semikhatov. Pt.1. [Text] Tekst. 1946. 355 p.

1. Akademiia nauk URSR, Kiev. Instytut geologichnykh nauk.

2. Deystvitel my chlen AN WERR (for Charryshev).
(Bashkiria-Water, Underground)

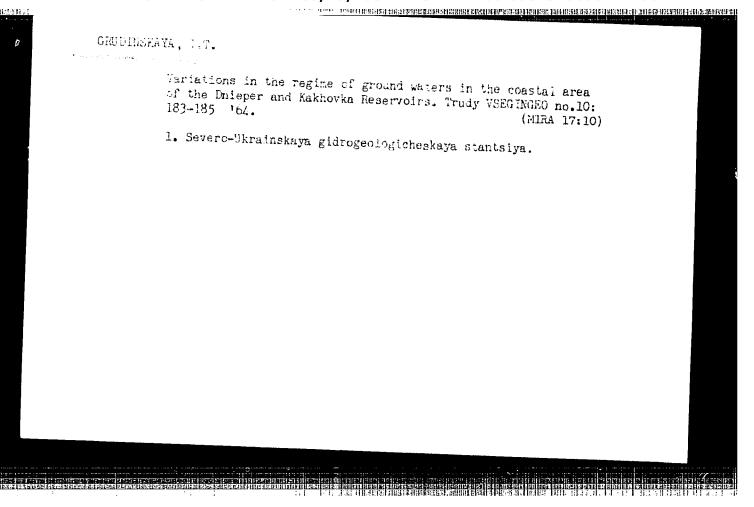
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) 2	Inderground waters in the vicinity of the Chernyy les (Ukrainia: 5.S.R., Kirograd Province). Geol. zhur. 19 no.3:73-78 '59. (MIRA 12:10)	n.
	(Kirovograd ProvinceWater, Underground)	
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GRUDINSKAYA, I.T. [Hrudyns'ka, I.T.]

Behavior and origin of interstitial waters in the southwestern part of the Ukrainian crystalline shield. Geol. zhur. 20 no.2:108-111 '60. (MIRA 14:5)

GRUDINSKAYA, Irina Timofeyevna [Hrudyns'ka, I.T.]; VASHCHENKO, V.M., kand.geol.-mineral.nauk, otv.red.

[Underground waters of the Ukrainian Crystalline Shield (Polesye a. the forest steppe).] Pidzemni vody ukrains'koho krystalichnoho shchyta (Polissia ta lisostep) Kyiv, "Naukova dumka," 1964. 107 p. (Akademiia nauk URSR. Kiev, Instytut geologichnykh nauk. Pratsi. Seriia hidrogeologii i inzhenernoi geologii, no. 11) (MIRA 17:6)



GRUDINCKIY, P. G. 7461 TON 0010.0100		less of training personnel in use of proper tech. Migues), and measures adopted to increase dependa- Mility. Gives summery of basic principles to be followed in further development of power system. Graphs show: growth of electric power plant capacity during IC. 18649 1867/Elec Power System 4501,0100 (Contd) Nov 1947	30-year period, growth in size of largest generators used at stations, relationship between mileage of various capacity lines (35-110 km, 110 km, 154-220 km and 35 km lines) from 1928 to 1950, and three basic electric systems.	18649
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GRUDTHSKTY, ra 3/50<mark>12</mark>7 each year. Includes five diagrams. use with natural gas since demand for it will grow more attention to evolving suitable equipment for WSSR/Engineering - Electric Power Stations adopted was reliable when safety precautions were strictly observed. Efficiency of plant was in-Scientific research organizations should devote. off rapidly due to sudden failures in gas supply. however, it was necessary to change back to fuel creased and pollution of air decreased. At times, Experience of over a year has shown that method were changed over from fuel oil to natural gas. "Experience of Operating an Electric Power Station on Matural Gas," A. F. Gorelov, Engr., 4 pp USSR/Engineering - Electric Power Stations Describes how boilers, with 85-110 tons/hr output, "Elek Stants" No 1 Gas, Matural (Contd) 3/50 Jen 16 3/50**12** Se Har

GRUDINSKIY, P. G. "The roblem of Safety Rules for Electrical Installations of Industrial Enterprises," Prom. energet., No.12, 1949 Prof., Moscow Fower Eng. Inst.

> CIA-RDP86-00513R000617110017-7" APPROVED FOR RELEASE: 08/10/2001

KHAVIN. N.Z., inzh.; GHUDINSKIY, P.G., prof., red.; LARIONOV, G.Ye., tekhn.red.

[Safety rules in the operation of electrical apparatus of urban and rural networks] Pravila bezopasnosti pri eksploatatsii elektricheskikh ustroistv gorodskikh i sel'skikh setel. Izd.stereotipnee. Meskva, Ges.energ.isd-vo. 1950. 87 p.

[Izd.stereotipnee. Meskva, Ges.energ.isd-vo. 1950. 87 p.

[MIRA 13:6)

1. Enscia (1923- U.S.S.R.) Ministerstvo elektrostantsiy. Tekhnicheskoye upravleniye.

(Electric engineering-Safety measures)

UBSER/Electricity - Distribution Installations
Literature

"Review of Ye. F. Ioffe's Book, 'Operational Work in High-Voltage Distribution Installations,'" Prof P. G. Grudinskiy, 1 p

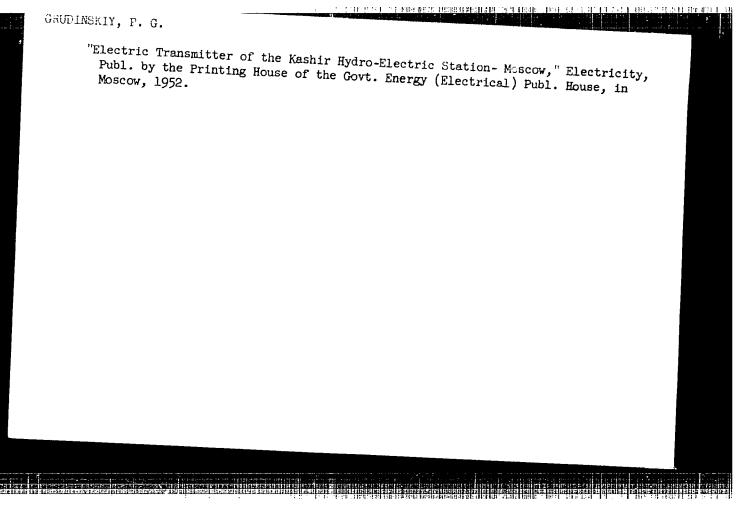
"Elek Stants Ho 2

Reviews favorably. Book is systematic presentation of material contained in various Min of Elec Power Plants instructions issued at different times. Published by Gosenergoizdat, 1949, 54 pp.

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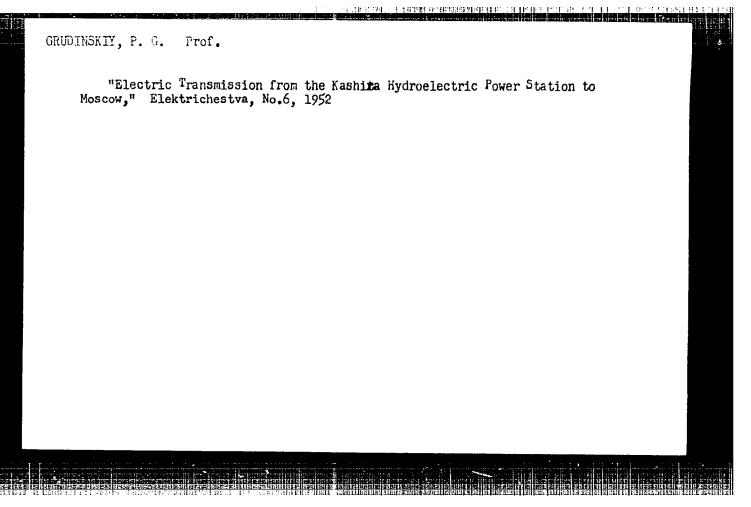
editors GRUDINSKIY, P. C., G. N. PETROV, A. M. FEDOSEYEV, M. G. CHILIKIN and A. T. GOLOVAN

"Electro-Technical Handbook" State Publishing House for Energy, Moscow-Leningrad, 1952.



CHILIKIN, W. G.: SUKOMEL, A. S.: SOLOV'YOV, I. I.: SIROTINSKIY, L. I.: BEL'KIND, L. D.: PEDOSEYNY, A. M.: GRUDINSKIY, P. G.: UL'YANOV, S. A.: VENIKOV, V. A.: MEDVEDEV, P. P.: SOLDATKINA, L. A.: VASIL'YEV, A. A.: ROZANOV, G. M.: ANISIMOVA, H. D. Professor A. A. Glazunov. On His 60th Birthday and 30th Year of Scientific Pedagogical, Engineering, and Society Activity. Elektrichestvo, No. 1, 1952.

SO: Monthly List of Russian Accessions, Library of Congress, April 1952



《全新經過》與10年期2月時間2月時間2月日日、10年日日

GUSEV, S.A., inzh.; ZHUKHOVITSKIY, B.Ya., kend.tekhn.nauk; ZARIN, D.D., kand.tekhn.nauk; IVANOV-SMOLENSKIY, A.V., kand.tekhn.nauk; KNYAZZVSKIY, B.A., kand.tekhn.nauk; KUZNETSOV, A.I., inzh.; KOZIS, V.L., kand.tekhn.nauk; KORYTIN, A.A., inzh.; LASHKOV, F.P., inzh.; L'VOV, Ye.L., kand.tekhn.nauk; MELESHKINA, L.P., kand.tekhn.nauk; NEKRASOVA, N.M., kand.tekhn.nauk; NIKULIN, N.V., kand.tekhn.nauk; POLEVOY, V.A., kand.tekhnicheskikh nauk; RAZEVIG, D.V., kand.tekhn.nauk; ROZANOV, G.M., kand.tekhn. nauk; RUMSHISKIY, L.Z., kand.fiz.-matem.nauk; SVISTOV, N.K., kand.tekhn.nauk; SIROTINSKIY, Ye.L., kand.tekhn.nauk; SOKOLOV, M.M., kand.tekhn.nauk; TALITSKIY, A.V., prof.; TREMBACH, V.V., inzh.; FEDOROV, A.A., kand.tekhn.nauk; GRUDINSKIY, P.G., prof.; PRYTKOV, V.T., kand.tekhn.nauk; CHILIKIN, M.G., prof., glavnyy red.; GCLOVAN, A.T., prof., red.; PETROV, G.N., prof., red.; FEDOSEYRV, A.M., prof., red.; ANTIK, I.V., red.; SKVORTSOV, I.M., tekhn.red.

[Handbook for electric engineering] Elektrotekhnicheskii spravochnik. Moskva, Gos.energ.izd-vo. 1952. 640 p. (MIRA 13:2)

1. Prepodavateli Moskovskogo energeticheskogo instituta imeni V.M. Molotova (for all except Antik, Skvortsov). (Electric engineering)

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GAUDINGKIY, P. G.		PA 248T28 -	
USSR/Electricity - Power Factor Induction Motors "Discussion: On Measures to Raise the Power Factor of Electrical Installations of Industrial Enter- prises," Dr Tech Sci I. A. Syromyatnikov, Tech Admin of Min of Elec Pow Stas USSR; Prof P. G. Gru-	1. W. Litvak, Canding, No. 2, pp 80-88 1. W. Litvak, Canding, No. 2, pp 80-88 1. Mo.	and Braile expected in	

MARTYNYUK, A.K., inzhener; MUSATOV, T.P., inzhener; GRUDINSKIY, P.G.; LEBEDEVA, V.I.

Electric circuit scheme in the form of a "rectangle." Elek.sta. 24 no.11:43(MIRA 6:11)
(Electric circuits)

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CHILIKIN, M.G., GLAZUNOV, A.A.; STEPANOV, V.N.; TELESHEV, B.A.; GRUDINSKIY, P.G.; VENIKOV, V.A.; MEL'NIKOV, N.A.; ROGALI-LEVITSKIY, M.V.; GLAZUNOV, A.A.; SOLDATKINA, L.A.; ZHUKOV, L.A., ANISIMOVA, N.D.

A.IA.Riabkov. Obituary. Elektrichestvo no.3:92 Mr *54. (MLRA 7:4) (Riabkov, Aleksandr Iakovlevich, 1890-1954)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617110017-7"

: USSR/Electricity Subject

Pub. 27 - 19/35 Card 1/1

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Grudinskiy, P. G., Prof., Moscow Author

: V. M. Dmitriyev's article: "Determination of an Economical Current-Carrying Capacity in a Cable Distribution Title Network", in Elektrichestvo, #10, 1953 (Discussion)

: Elektrichestvo, 8, 77-79, Ag 1954 Periodical

V. M. Dmitriyev's method is criticized as wrong. author presents a graph, formulae and a numerical example Abstract to support his criticism. 2 Russian references (1950, 1951)

Institution: Moscow Institute of Power Engineering im. Molotov

: No date Submitted

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CHILIKIN, M.G.; GLAZUNOV, A.A.; STEPANOV, V.N.; TELESHEY, B.A.;
GHUDINSKIY, P.G.; VENIKOV, V.A.; MEL'HIKOV, N.A.;
HUGALI-IEVITSKIT, M.V.; ROZAHOV, G.M.; GLAZUNOV, G.M.;
SOLDATKINA, L.A.; ZHUKOV, L.A.; ANISIMOVA, N.D.

Aleksandr Iakovlevich Riabkov; obituary. Elek.sta. 25 no.2:
59 F '54. (Mirka 7:2)

(Riabkov, Aleksandr Iakovlevich, 1890-1954)
```

TERPAKOV, V.S.; KICCHKOV, I.M.; CHTEHOV, D.G.; KCCTEV, G.I.; LAVESICHKO, K.D.: NEKRASOV, A.M.; SPIRIN, S.A.; VESELOV, N.D.; KOTHLEVSKIY, D.G.;
SLITINOV, G.V.; MARINOV, A.M.; MAKSIMOV, A.A.; IVANOV, K.I.; MEROV, A.P.;
CHUPRAKOV, N.M.; AVTONCKOV, B.V.; SIROHYATHIKOV, I.A.; MOLOKANOV, S.I.;
FAERMAN, S.TS.; GORBHKOV, A.S.; GOLD DEIBERG, P.S.; SOKCLOV, B.M.; MAKUSHKIH, YA.G.; EKHITARYAH, S.G.; RASSADHIKOV, YE.I.; GRUDINSKIY, P.G.;
FOMICHEV, G.I.; SHCHERBININ, B.V.; ZAYTSEV, V.I.; KOKCHEV, S.V.; KIYUSHIN, M.P.; FESCHANSKIY, V.I.; SAFRAZEKYAN, G.S.; i dr...

IUrii Frokhorovich Komissarov; obituary. Elek.sta. 25 no.5:60 ky 15h.
(Komissarov, IUrii Frokhorovich, 1910-195h)

(MIRA 7:6)

GCLOVAN, A.T., professor, redaktor; GRUDINSKIY, P.G. professor, redaktor; PETROV, G.N., professor, redaktor; PEDCSETEV, A.M., professor, redaktor; CHILIKIN, M.G., professor, relaktor; ANTIK, I.V., inchener, redaktor; SKVORTSOV, I.M., tekhnicheskiy redaktor

[Electric engineering handbook] Elektrotekhnicheskiy spravochnik. Izd. 2-oe, perer. Pod obshchei red. V.M.Molotova, i dr. Moskva, Gos.energ. Vol.1. 1955. 527 p. Vol.2. 1955. 624 p. (MIRA 9:1)

1. Moskovskiy energeticheskiy institut imeni V.M.Molotova (for all except Skvortsov)

(Electric engineering--Handbooks, manuals, etc.)

UGORETS. I.I.; GLAZUNOV, A.A.; SYROMYATNIKOV, I.A.; KASHUNIN, I.S.; POSTNIKOV, N.A.; RADTSIG, V.A.; UL'YANOV, S.A.; GRUDINSKIY, P.G.; VASIL'YEV, A.A.; KUVSHINSKIY, N.N.; BAPTIDANOV, L.N.; TARASOV, V.I.; KRIKUNCHIK, A.B.; SHAPIRO, A.B.; BIBIKOV, V.V.; DVOSHIN, L.I.; KLINGOF, I.D.; KARPOV, M.M.; USPENSKIY, B.S.; CHALIDZE, I.M.; BLOCH, YA.A.; SHMOTKIN, I.S.

Iesif IAkevlevich Gumin; obituary. Elek.sta.26 no.12:58 D 155. (Gumin, Iesif IAkovlevich, 1890-1955) (MIRA 9:4)

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Translation from: Referativnyy zhurnal, Elektrotekhnika, 1957, Nr 7, pp 69-70 (USSR)

AUTHOR: Grudinskiy, P. G., and Lebedev, B. P.

TITLE: Simplification and Cost Cutting of Step-Down Substations in 90-225 kv Networks of the French State Electrical Authority (Uproshcheniye i udeshevleniye ponizitel nykh podstantsiy v setyakh 90-225 kv Frantsuzskogo gosudarstvennogo elektrotekhnicheskogo upravleniya)

PERIODICAL: Energokh-vo za rubezhom (Power Utilities in Foreign Countries), 1956, Nr 4, pp 26-32

ABSTRACT: Cutting costs of electric installations is effected largely through: use of air and small-volume oil switches; simplification of layouts and substation construction by using pantograph-type disconnecting switches; wide usage of switchgear assemblies, including experimental installations with outdoor switchgear assemblies up to 60 kv; automation, and some other measures. In lieu of the classical substation, "simple net" type and "mixed phase" type 63-90 kv substations have been designed and are being built; they provide 75%

Card 1/2

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Simplification and Cost Cutting of Step-Down Substations in 90-225 kv Networks

cost saving on one circuit (including the high-voltage equipment).
Bibliography: 2 items. See also Referativnyy zhurnal, Elektrotekhnika, 1956, 14432.

I. M. R.

Card 2/2

```
VINTER, A.V.; NEKRASOV, A.M.; SYROMYATNIKOV, I.A.; VOZNESENSKIY, A.N.;
VASILENKO, P.I.; LAUPMAN, P.P.; TERMAN, I.A.; VINOGRADOV, N.P.;
ANTOSHIN, N.N.; ALEKSANDROV, B.K.; USPENSKIY, B.S.; KLASSON, I.R.;
KHEYPITS, M.E.; DRUTSKIY, V.F.; KRACHKOVSKIY, N.N.; POPOV, P.A.;
CHELIDZE, I.M.; FILARITOV, S.N.; KOZLOV, M.D.; BERLIN, V.Ya.;
SARADZHEV, A.KN.; GORDZIYEVICH, I.S.; PAK, V.P.; DORFMAN, S.M.;
DUBINSKIY, L.A.; UL'YANOV, S.A.; GRUDINSKIY, P.G.; KUVSHINSKIY, N.N.;
ERMOLENKO, V.M.

Mikhail Mikhailovich Karpov. Elek.sta. 27 no.10:62 0 '56. (MLRA 9:12)
(Karpov, Mikhail Mikhailovich, d.1956)
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PHASE I BOOK EXPLOITATION

425

Bel'kind, Lev Davidovich; Grudinskiy, Petr Grigor'yevich and Moskvitin, Anatoliy Ivanovich

Klavdiy Ippolitovich Shenfer. Moscow, Gosenergoizdat, 1957. 75 p. (Series: Deyateli energeticheskoy tekhniki; biograficheskaya seriya, vyp. 20) 2,700 copies printed.

Ed.: Antik, I. V.; Tech. Ed.: Voronin, K. P.

PURPOSE: This monograph is intended for wide circles of readers interested in the history of Russian science, for physicists, electrical engineers and researchers studying the history of electrical engineering in Russia.

COVERAGE: The monograph describes the life of K. I. Shenfer who is said to be one of the creators of the Soviet school of

Card 1/5

425

electromechanics. His activities as electrical engineer, inventor and educator are reviewed. The section "Life and activities of K T Shenfer" was compiled by Professors L.D. Bel'kind.

K. I. Shenfer" was compiled by Professors L.D. Bel'kind, P. G. Grudinskiy and A.I. Moskvitin. The section "Scientific Research Work and the Inventions of Academician K. I. Shenfer" was written by Professor A.I. Moskvitin. At the end of the book there is a list of K. I. Shenfer's works and an appendix listing the patents which he received in the USSR for his inventions. No personalities are mentioned. There are no references.

TABLE OF CONTENTS:

克莱科克斯

Foreword 5

Life and Activities of K. I. Shenfer

Klavdiy Ippolitovich Shenfer (Cont.)

Childhood. High-school years (1885-1903) 7

Student years and preparation for scientific and educational activities (1903-1912)

Card 2/5

Scientific and pedagogical activities at the Electrical Engineering Department of the MVTU and the Moscow Power Engineering Institute (1918-1940) Scientific research work at the All-Union Electrical Engineering Institute (1921-1938) K. I. Shenfer's work in the Academy of Sciences, USSR (1931-1946) Scientific Research Activities and Inventions of Academician K. I. Shenfer Works in the field of commutation of electrical machinery 38 Commutation at very low speed Card 3/5	Work at the Moscow Higher Technical School in pre- revolutionary years (1912-1917)	16
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GRUDINSKIY, PG.

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- Soveshchaniye elektrikov po voprosu proyektirovaniya elektricheskoy chasti gidrostantsiy, Moscow, 1956
- Novoye v proyektirovanii elektricheskoy chasti gidroelektrostantsiy (Materialy soveshchaniya po proyektirovaniyu i ekspluatatsii) (New Developments in the Design of Electric Equipment for Hydroelectric Power Plants (Data of the Conference on Design and Operation)) Moscow-Leningrad, Gosenergoizdat, 1957, 222 p. 4,500 copies printed.
- Sponsoring agencies (of Conference): Vsesoyuznyy trest po proyektirovaniyu gidroelektrostantsiy i gidroelektrouzlov; Moskovskoye otdeleniye nauchno-tekhnicheskogo obschchestva energopromyshlennosti, Moskovskiy energeticheskiy institut.
- Ed.: Demkov, Ye. D.; Tech. Ed.: Fridkin, A.M.; Ed. of the Collection: Kheyfits, M.E., Engineer.
- PURPOSE: These collected reports are addressed to engineers engaged in the design, construction, operation and maintenance of electric power plants, as well as to students at power

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New Developments in Design of Electric Equipment (Cont.) 284 engineering and electrical engineering vuzes.

COVERAGE: A conference of electrical engineers engaged in the design, construction, operation and maintenance of hydroelectric power plants and electric power distribution systems was held in Moscow from May 16th to May 24, 1956. The conference was organized by Gidroenergoproyekt (All-Union Trust for the Design and Planning of Hydroelectric Power Plants and Developments) in collaboration with MONTOEP (Moscow Branch of the Scientific and Technical Society of the Electrical Industry) and the Moskovskiy energeticheskiy insitut (Moscow Power Engineering Institute). Several related design organizations, as well as the Ministries of the Electrical Industry, of Electric Power Plants and of Electric Power Plant Construction also participated. The reports in this collection reflect the latest views on the design and planning of the electrical equipment of hydroelectric stations and on their requirements for equipment. Special attention is given to problems of automation and remote control of stations and systems. These reports are concerned to a very great extent with the description and appraisal of considerable quantities of

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New Developments in Design of Electric Equipment (Cont.) Soviet-produced electrical equipment. There is a list of Soviet personalities and organizations which took part in the conference

(pp. 205-215). In several of the reports reference is made to Soviet power engineers who have made important contributions in the field. There are 34 references, of which 27 are Soviet (pp. 157, 169, 197 and 205), three English, two Italian, one French and one Swedish (p. 196).

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ALEKSANDRÓV, A.G., dots; ARONOVICH, I.S., inzh.; BABIKOV, M.A., doktor tekhn.nauk; BATUSOV, S.V., kand.tekhn.nauk; BEL'KIND, L.D., doktor tekhn.nauk; VENIKOV, V.A., doktor tekhn.nauk; VESELOVSKIY, O.N., kand tekhn nauk; GOLOVAN, A.T., doktor tekhn nauk; GOLUBTSOVA, V.A., doktor tekhn.nauk; GREYNNR, L.K., inzh.; GRUDINSKIY, P.G., prof.; GUSEV, S.A., inzh.: DMOKHOVSKAYA, L.F., kand.tekhn.nauk; DROZDOV, N.G., doktor tekhn.nauk; IVANOV, A.P., doktor tekhn.nauk [deceased]; KAGANOV, I.L., doktor tekhn.pauk; KERBER, L.L., inzh.; KOCHEHOVA, A.I., kand.tekhn.nauk.: LARIONOV, A.N.; MINOV, D.K., doktor tekhn.nauk; METUSHIL, A.V., doktor tekhn.nauk; NIKULIN, N.V., kand.tekhn.nauk; NILEMBER, R.A., prof.; PANTYUSHIN, V.S., prof.; PASYNKOV, V.V., doktor tekhn.nauk; PETROV, G.H., doktor tekhn.nauk; POLIVANOV, K.M., doktor tekhn.nauk; PRIVEZENTSEV, V.A., doktor tekhn.nauk; RADUNSKIY, L.D., inzh.; RENNE, V.T., doktor tekhn.nauk; SVENCHARSKIY, A.D., doktor tekhn.nauk; SOLOV'YEV, I.I., doktor tekhn.nauk; STUPEL' F.A. kand.tekhn.nauk; TALITSKIY, A.V., prof.; TEMNIKOV, F.Ye., kand.tekhn.nauk; FEDOROV, L.I., inzh.; FEDOSEYEV, A.M., doktor tekhn.nauk; KHOLYAVSKIY, G.B., inzh.; CHECHET, Yu.S., doktor tekhn.nauk; SHNEY-BERG, Ya.A., kand.tekhn.nauk; SHUMILOVSKIY, M.M., doktor tekhn.nauk; ANTIK, I.B., red.; MEDVEREV, L.Ya., tekhn.red.

[The history of power engineering in the U.S.S.R. in three volumes] Istoriia energeticheskoi tekhniki SSSR v trekh tomakh. Moskva, Gos. energ. izd-vo.

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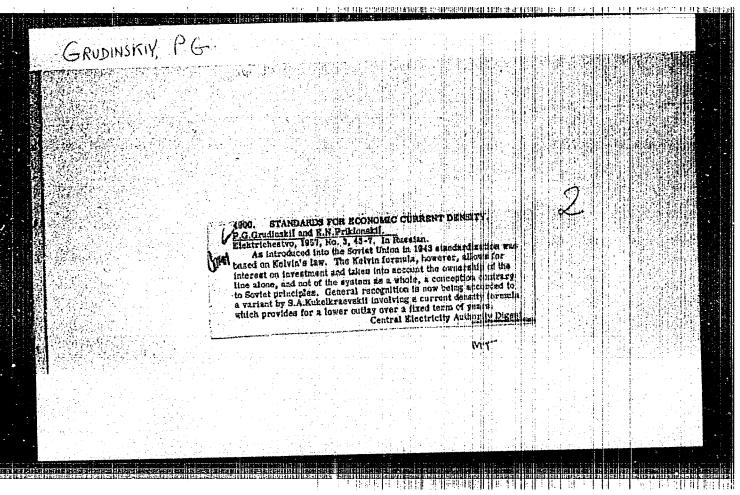
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ALEKSANDROV, A.G. --- (continued) Card 2.

Vol.2. [Bleatric engineering] Elektrotekhnika. Avtorskii kollektiv toma: Aleksandrov i dr. 1957, 727 p. (MIRA 11:2)

1. Moscow. Moskovskiy energeticheskiy institut. 2. Chlen-korrespondent AN SSSR (for Larionov)

(Electric engineering)



104-3-20/45 Grudinskiy, P.G., Professor. · AUTHOR:

TITLE: On allowing for the load capacity in selecting transformers. (Ob uchete nagruzochnoy sposobnosti pri vybore transformatorov)

PERIODICAL: "Elektricheskiye Stantsii" (Power Stations). 1957. Vol. 28, No.3, pp. 61 - 65 (U.S.S.R.)

CT: In recent years 5 kW of transformers have been installed in the USSR for every kilowatt of generating plant. The ABSTRACT: amount of transformer capacity required could be much reduced if the total load carrying capacity of the transformers were taken into account, in selecting them, for it is at least 20 -30% more than the rated load. The question then arises whether it is economically advisable to load transformers in this way. Cost equations are then derived. It is shown that the cost equations are based on the costs of 1 kWh of losses and these are different at full and no load. Therefore, the cost of losses must be determined by working out fully the case of a power system with heavy and with light loadings. Further equations are then derived and graphs are given of the cost of 110 kV transformers in thousands of Roubles over a ten year period against the output for different loadings, and graphs showing the loads at which transformers of the next standard

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On allowing for the load capacity in selecting transformers. (Cont.)

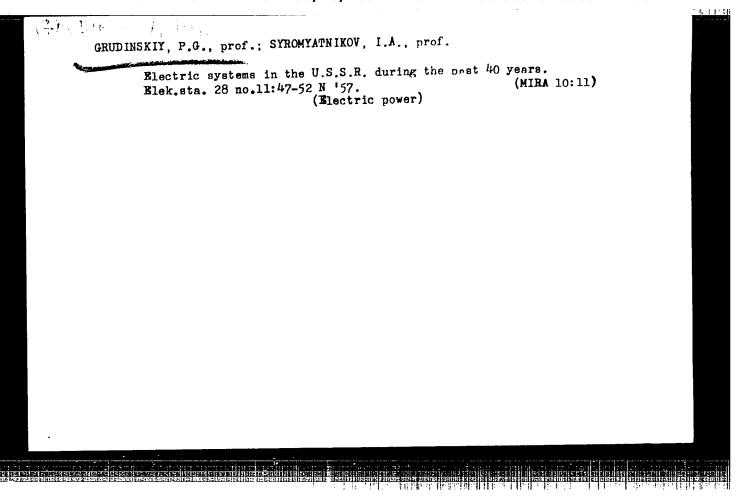
rating up or down should be chosen. It is concluded that the existing range of standard transformer outputs does not form a convenient series from the economic standpoint. Whether a transformer should work lightly or heavily loaded depends on the characteristics of the transformer and the conditions under which it operates (load factor, load increase, distance from power station and so on). The best choice in particular cases is stated. In most cases when two transformers work in parallel and act as spares for one another, provision should be made for special forced cooling when one transformer has to operate alone under emergency conditions. Allowance for load increase has a big effect on the choice of transformer rating. There are 3 figures.

ASSOCIATION: Moscow Power Institute (Moskovskiy Energeticheskiy

Institut)

VAILABLE: Library of Congress

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SYROMYATHIKOV, I.A.; GRUDINSKIY, P.G.; PETROV, I.I.; KOROL'KOVA, V.I.;
SERBINOVSKIY, G.V.; BOL'SHAM, Ya.M.; LIVSHITS, D.A.; FAYERMAN, A.L.
NAYFELD, M.P.; ZHIVOV, M.S.; ONKIN, A.K. (Moskva)

Candidate of engineering L. P. Podol'skii. Elektrichestvo no.1:96

Ja '58. (MIRA 11:2)

(Podol'skii, Lev Petrovich, 1887)

AUTHORS: Venikov, V. A., Veyts, V. I., 307/105-58-7-27/32

Glazunov, A.A., Grudinskiy, P.G.,

Probst, A. Ye., Petrov, G. N., Russakovskiy, Ye. A.,

Shershov, S. F., Teleshev, B. A.

TITLE: In Memoriam Professor S. A. Kukel' - Krayevskiy, Doctor of

Industrial Engineering. (Pamyati doktora tekhniko-

-екопомісневкікh nauk, prof. S. A. Kukel' - Krayevskogo) On His 75th Birthday (К 75-letiyu so dnya rozhdeniya)

PERIODICAL: Elektrichestvo, 1958, Nr 7, pp. 91 - 92 (USSR)

ABSTRACT: Sergey Andreyevich Kukel' - Krayevskiy was born on January 26th, 1883. He graduated with distinction from the Naval

College in St. Petersburg, served in the navy as mine officer, teached mine engineering and carried out research work in the field of wireless telegraphy. He hold lectures on the application of electrical engineering in submarines. His first papers on electrical engineering were published from 1908 to 1912. In 1912 he entered the St. Petersburg

Polytechnical Institute, he received, however, his certificate,

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In Memoriam Professor S. A. Kukel' - Krayevskiy, S07/105+58-7-27/32 Doctor of Industrial Engineering On His 75th Birthday

he was commander of the submarine fleet and engineer, from 1919 - 1920 base-commandant of the Caspian Fleet, from 1920 to 1921 he teached electrical engineering at the Naval College. After demobilization he was President of the Afghan-Soviet Technical Commission in Afghanistan, from 1922 to 1930 head of the Department of Electrification at the Glavelektro. Since that time till his death in 1941 his activity has been connected with the development of the electrical engineering of the USSR. At the same time he teached at the Institut narodnogo khozyaystvi im. Plekhanova (Institute of Economics imeni Plekhanov) and Iron 1930 on at the Moskovskiy energeticheskiy institut (Moscow Institute of Power Engineering). In 1924 he was the representative of the USSR in London in the First International Conference of Power Engineering. He did scientific work at the Energeticheskiy institut im. G. M. Krzhizhanovskogo (Institute of Power Engineering imeni G. M. Krzhizhanovski, as USSK). He attended actively the conferences on the problems of the Great Volga. He published more than 60 papers and a series of monographs. He died on July 22nd, 1941. There is 1 photograph.

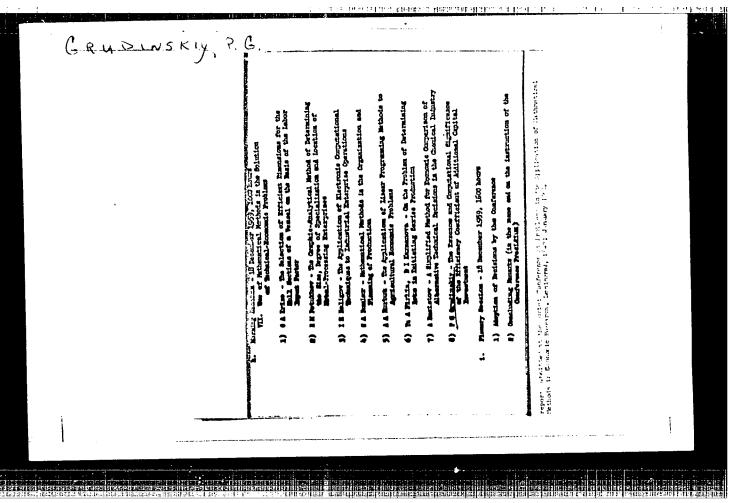
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In Memoriam Professor S. A. Kukel' - Krayevskiy, 50V/105-58-7-27/32 Doctor of Technical Economics On His 75th Birthday

1. Mechanics (Personnel) -- USSR

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CHILIKIN, M.G., SIROTINSKIY, L.I., VENIKOV. V.A., ULIYANOV, S.A.;
GHDDINSKIY, P.G., FEDOSEYET, A.M., SOLOVIYEV, I.I., DROZDOV, N.G.;
STROMTATNIKOV, I.A.

Aleksandr Aleksandrovich Glazunov; obituary. Elektrichestvo
(MIRA 13:8)
no.8:88-89 Ag '60.
(Glazunov, Aleksandr Aleksandrovich, 1891-1960)